

1.29.3 Disassembly of the Accessory Drive

Disassemble the accessory drive as follows:

NOTE:

For disassembly and assembly of the accessory drive use toolset J 36024-D. See Figure 1-387

NOTE:

Engines built after December 2000, use the following tools for accessory drive seal removal and installation: J 45533 seal remover, J 45833 seal installer, and J 45877 seal runout gauge adapter to verify proper installation of seal in accessory drive. These tools are part of toolset J 36024-D. See Figure 1-387.

NOTE:

The seal, pulley and pulley nut are the only serviceable parts of the accessory drive assembly with the unitized oil seal.

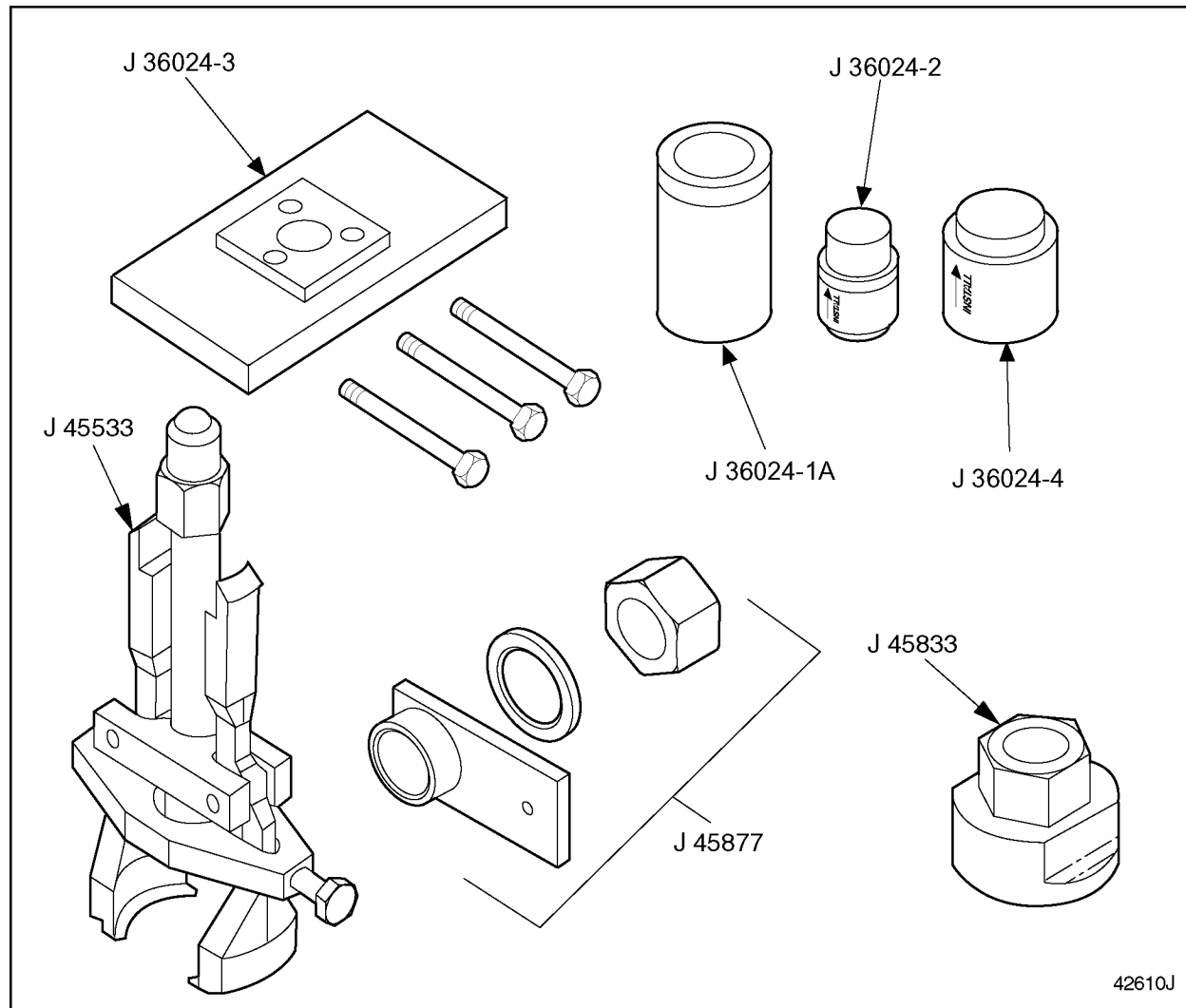


Figure 1-387 Accessory Drive Service Tool Set J 36024-D

1. Attach the accessory drive gear to the holding fixture, J 36024-3 part of J 36024-D, using the three bolts provided. See Figure 1-388.

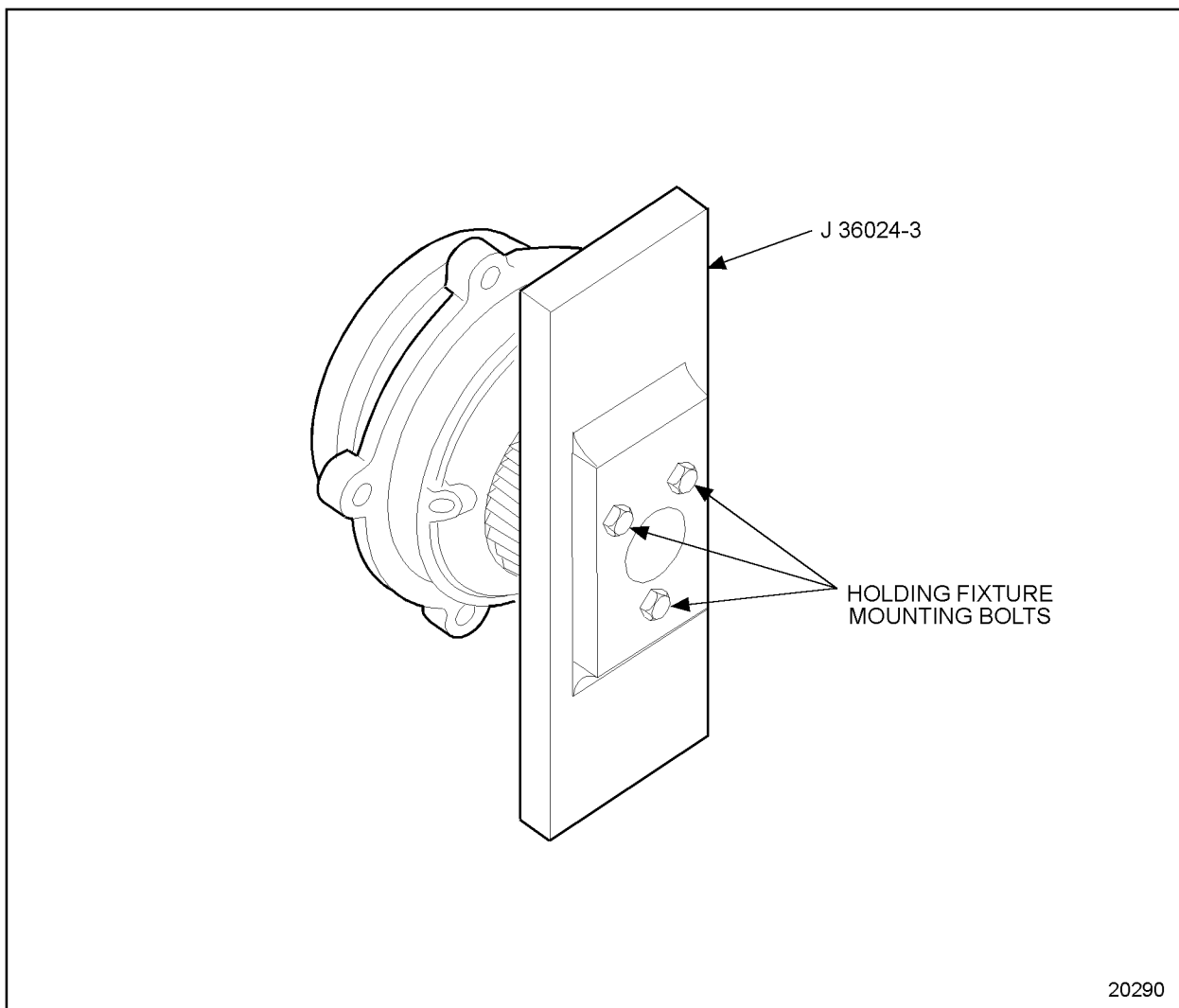


Figure 1-388 Holding Fixture

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2. Place the accessory drive assembly holding fixture into a vise. See Figure 1-389.

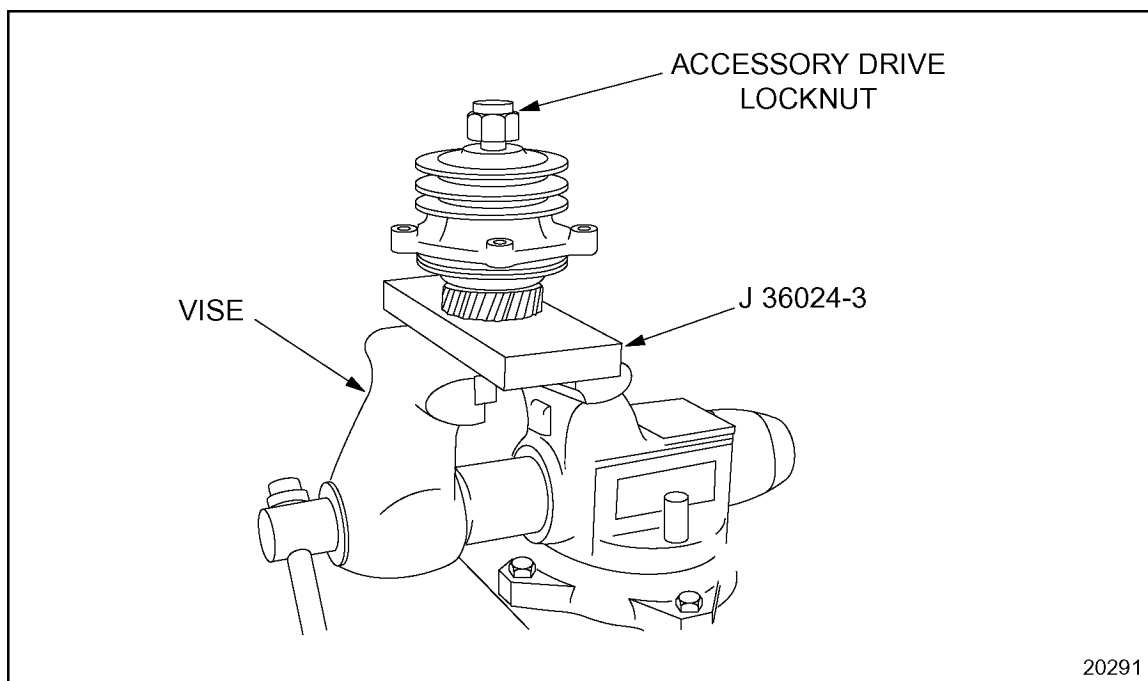
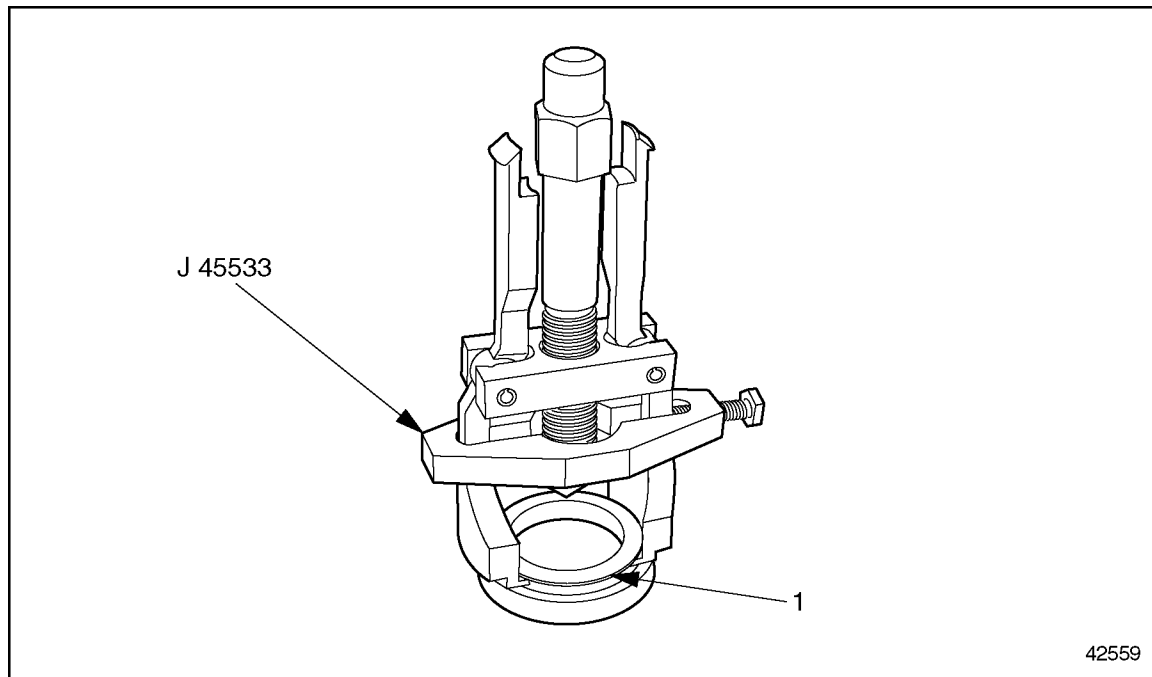


Figure 1-389 Accessory Drive Pulley Locknut Removal

3. Loosen and remove the accessory drive pulley locknut.
4. Remove the accessory drive pulley by tapping it with a rubber hammer or fiber mallet. If the pulley does not come off easily, use a puller to remove it. See Figure 1-378.



1. Seal Sleeve

Figure 1-378a J 45533 Accessory Drive Seal Remover

NOTE:

Perform steps 5, 6, and 7 unitized seal removal procedure, for accessory drive assemblies on engines built after December 2000.

5. Using J 45533 (part of toolset J 36024-D), remove seal sleeve.
 - [a] Ensure taper end of puller bolt is pointed toward inside jaws. See Figure 1-378a.
 - [b] Place inside jaws of tool over sleeve. See Figure 1-378a.
 - [c] Finger tighten hex bolt on side of tool.
 - [d] Remove sleeve by tightening puller bolt.

6. Removal of seal.

- [a] Invert puller bolt. See Figure 1-389b

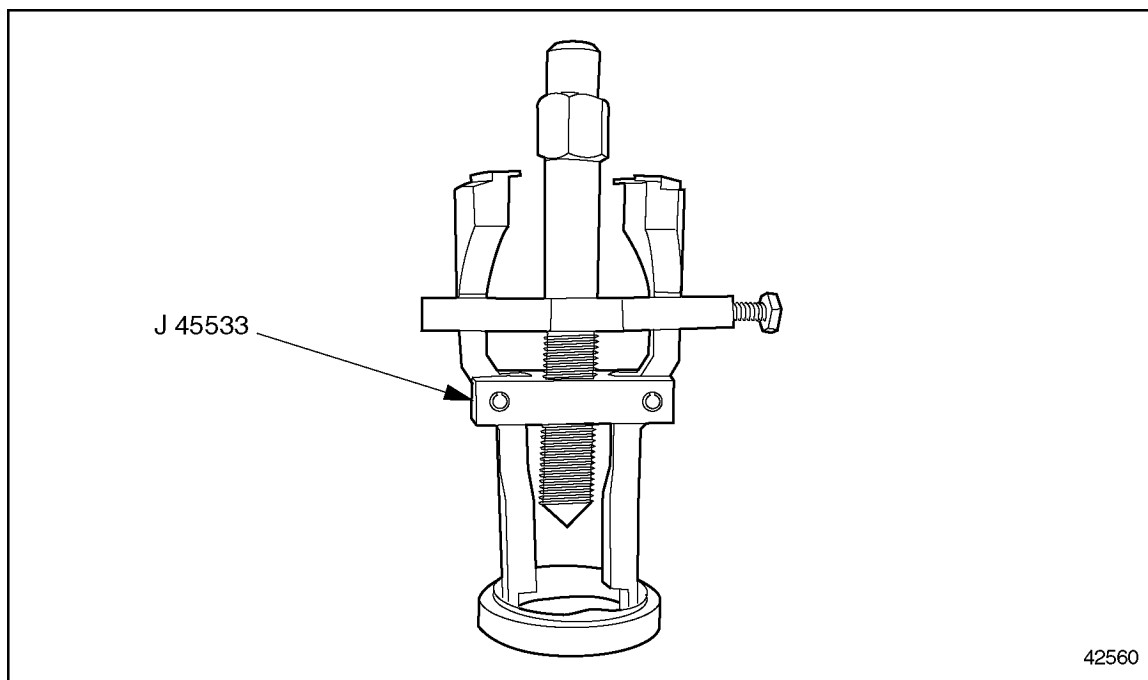


Figure 1-389b J 45533 Invert Puller Bolt

- [b] Loosen hex bolt on side of tool.
 - [c] Using a rubber mallet, gently drive outside jaws between seal and shaft through the rubber membrane of seal until tool bottoms out.
 - [d] Finger tighten hex bolt on side of tool.
 - [e] Remove seal by tightening puller bolt.
7. Clean accessory drive housing at seal location.

8. Position the accessory drive assembly on a press bed with the holding fixture supported. See Figure 1-390.

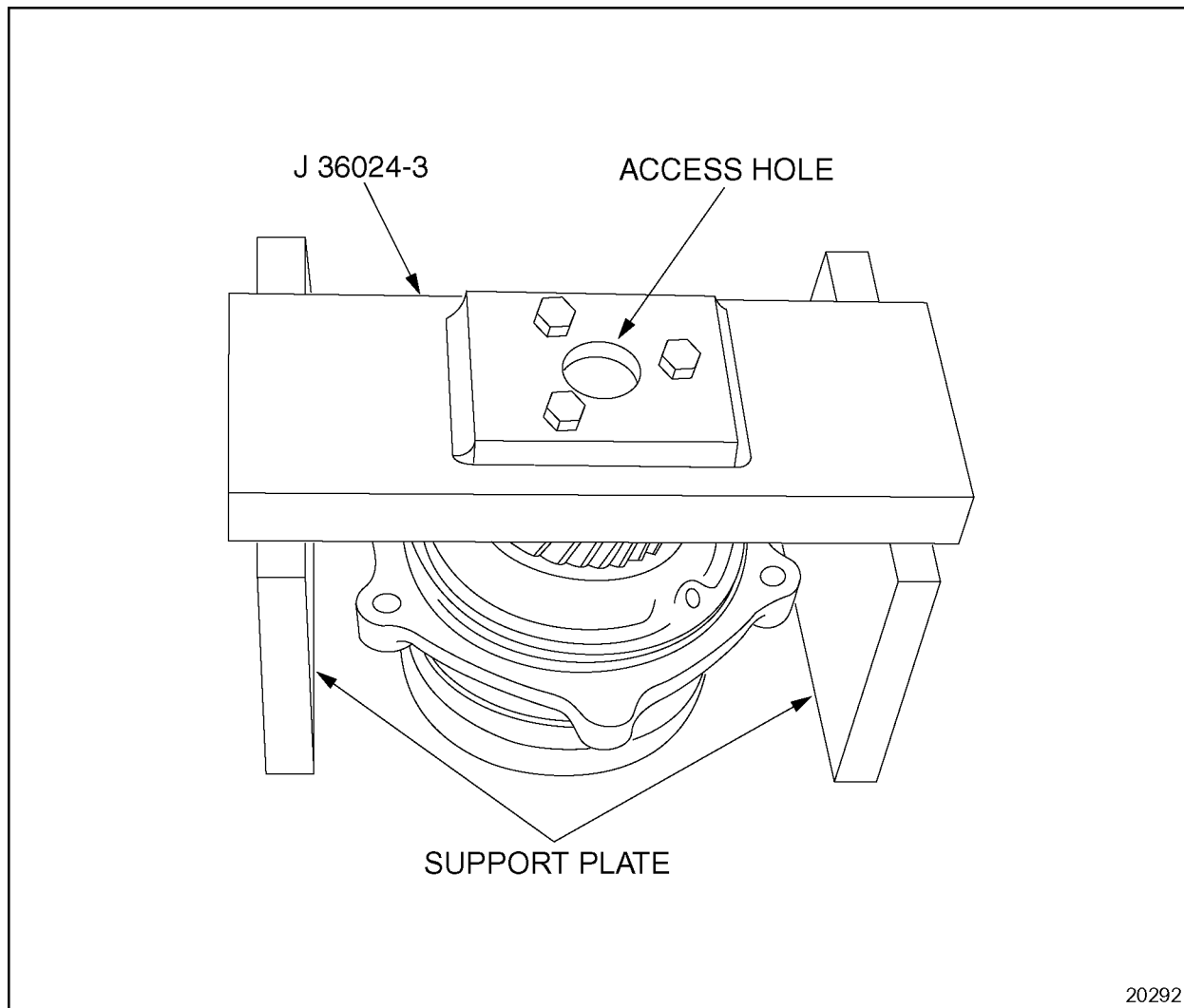


Figure 1-390 Accessory Drive Gear Removal

9. Using a press, apply pressure through the access hole in the holding fixture, J 36024-3 part of J 36024-D, and press the driveshaft out of the gear.

10. Remove the snap ring from the accessory drive housing. See Figure 1-391.

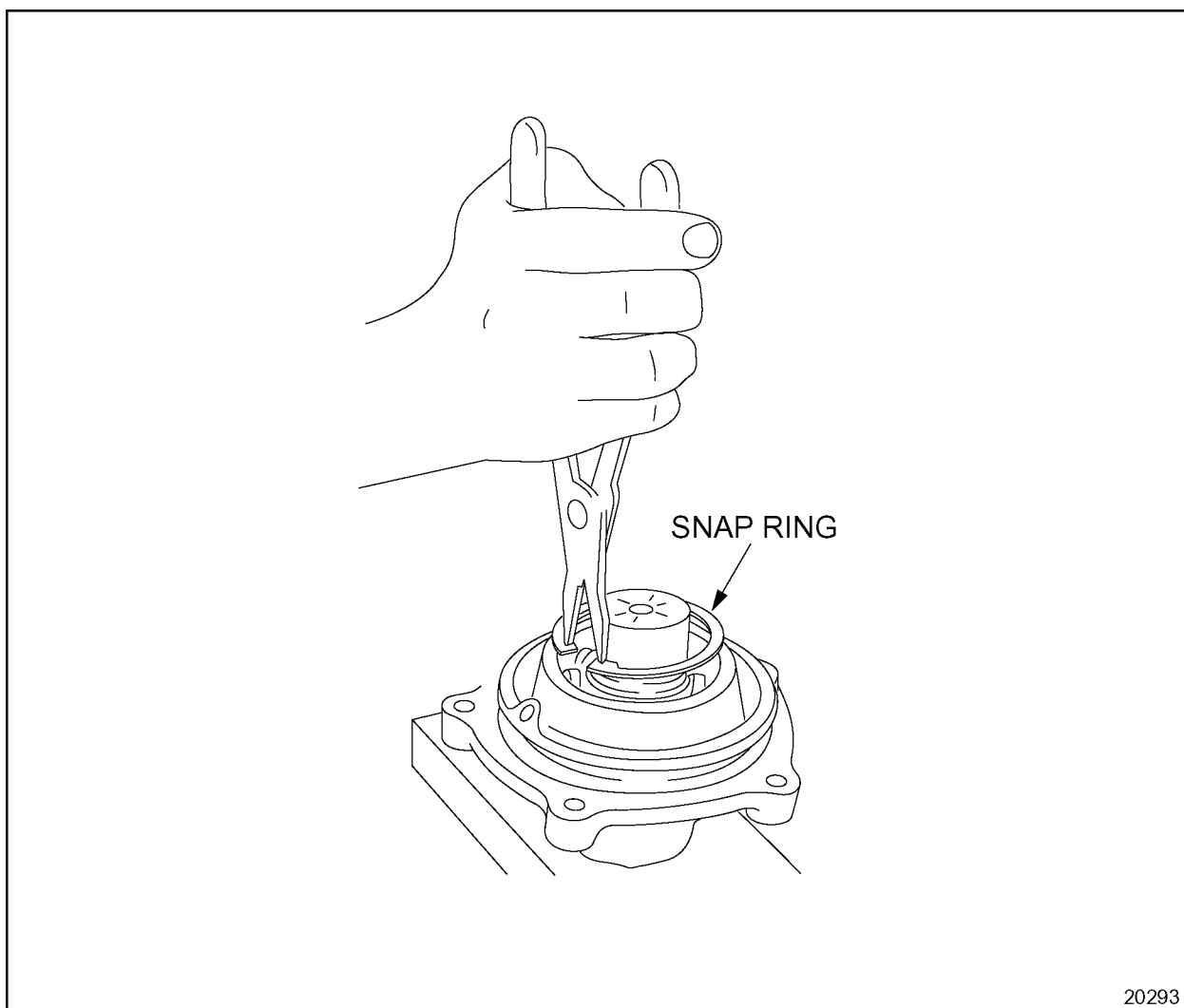


Figure 1-391 Snap Ring Removal

11. Turn the housing over and support the accessory drive housing on the machined surface using Vee-blocks.
12. Using a press, apply pressure to the pulley end of the shaft and remove the shaft and bearing assembly.
13. Turn the accessory drive housing over, and support it on the attaching bolt bosses using Vee-blocks.

NOTICE:

For assemblies with inner race for needle bearing, place the accessory driveshaft in a vise with soft jaws taking care not to damage the shaft surface.

14. Install needle bearing remover and installer, J 36024-2 part of J 36024-D. See Figure 1-392. Apply pressure to J 36024-2 part of J 36024-D, and remove the needle bearing.

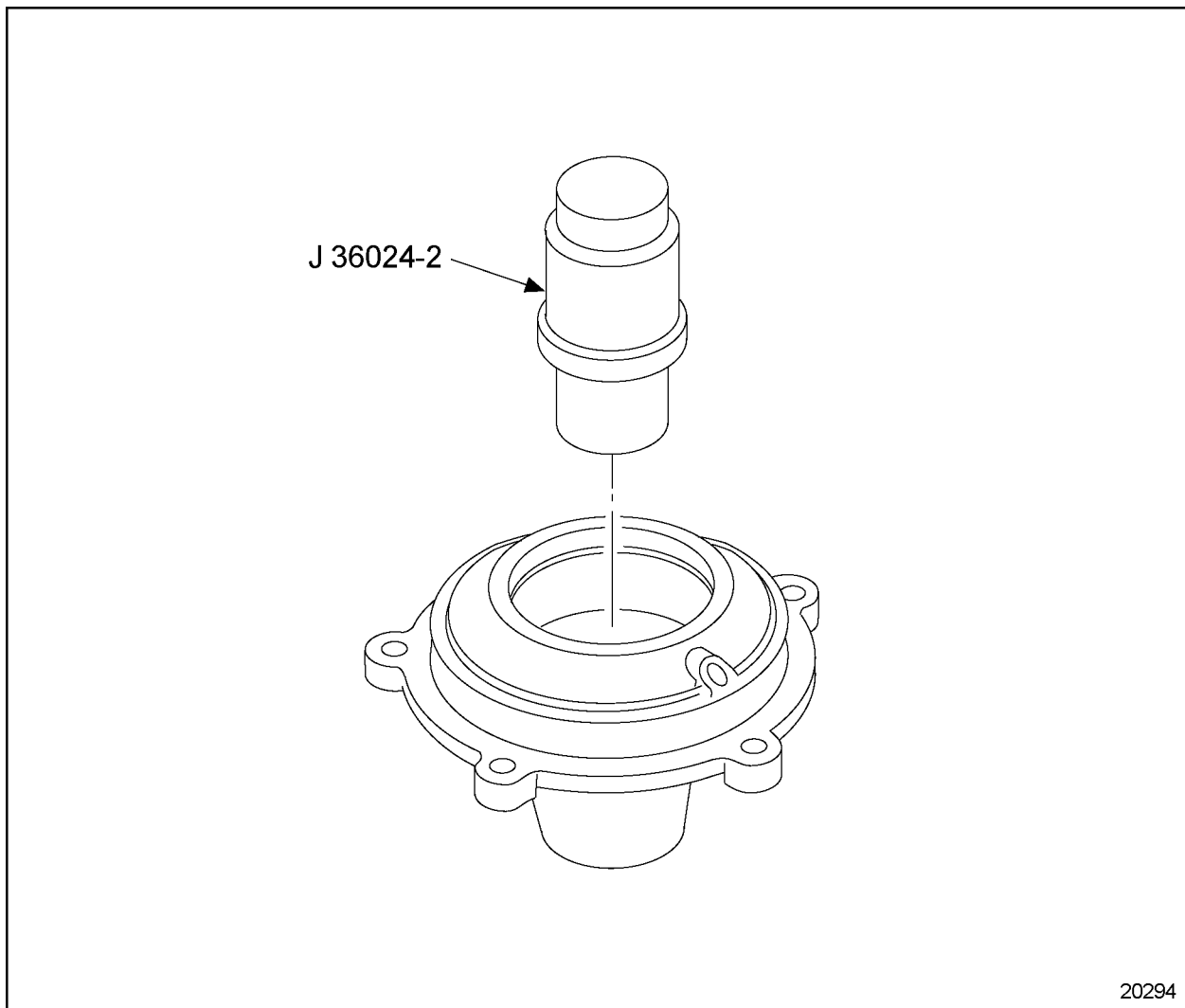


Figure 1-392 Needle Bearing Removal

15. Apply pressure to J 36024-2 part of J 36024-C and remove the needle bearing.

16. Remove the snap ring from the accessory driveshaft. See Figure 1-393.

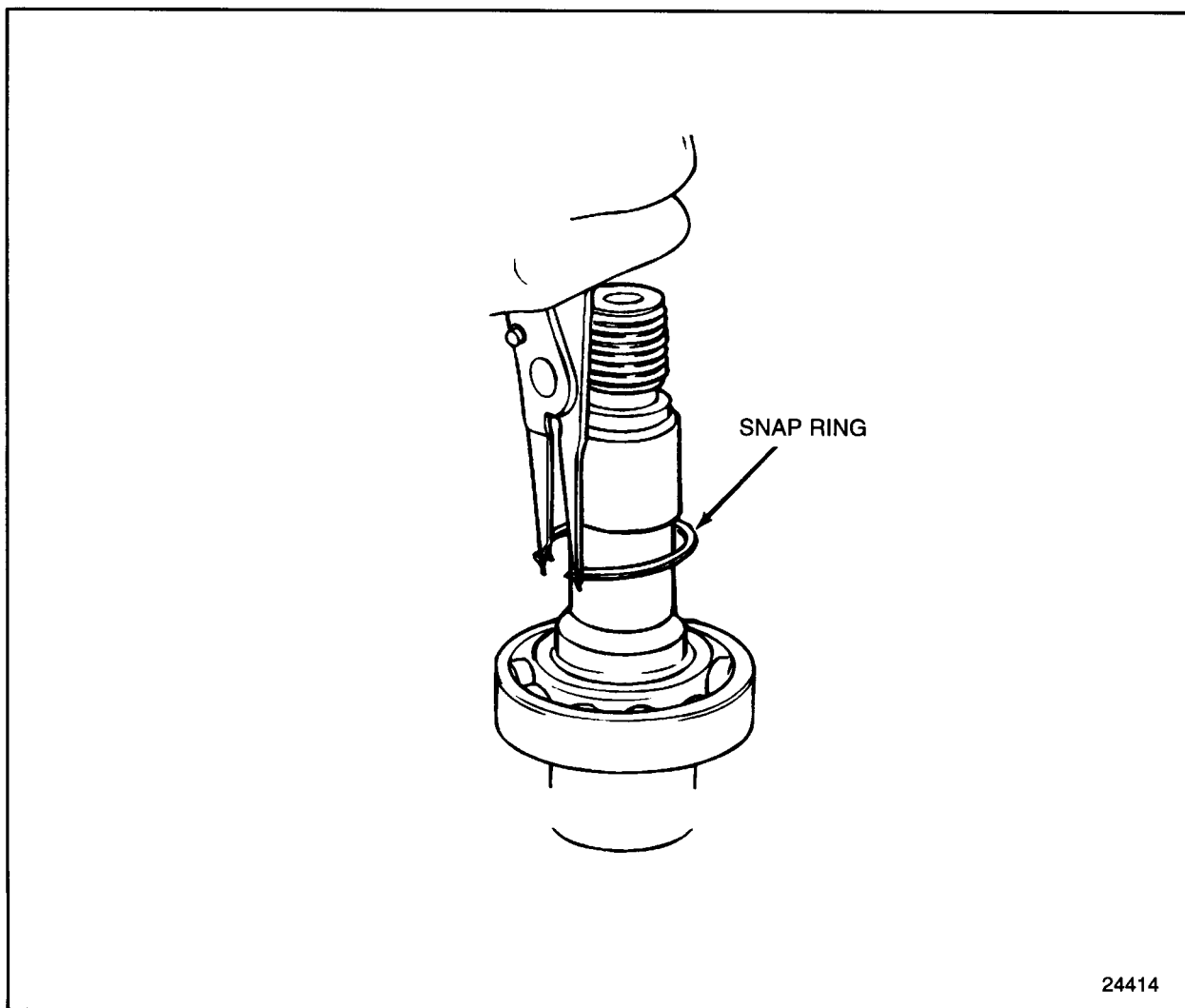


Figure 1-393 Snap Ring Removal

17. Position two steel press plates under the ball bearing outer race. See Figure 1-394.

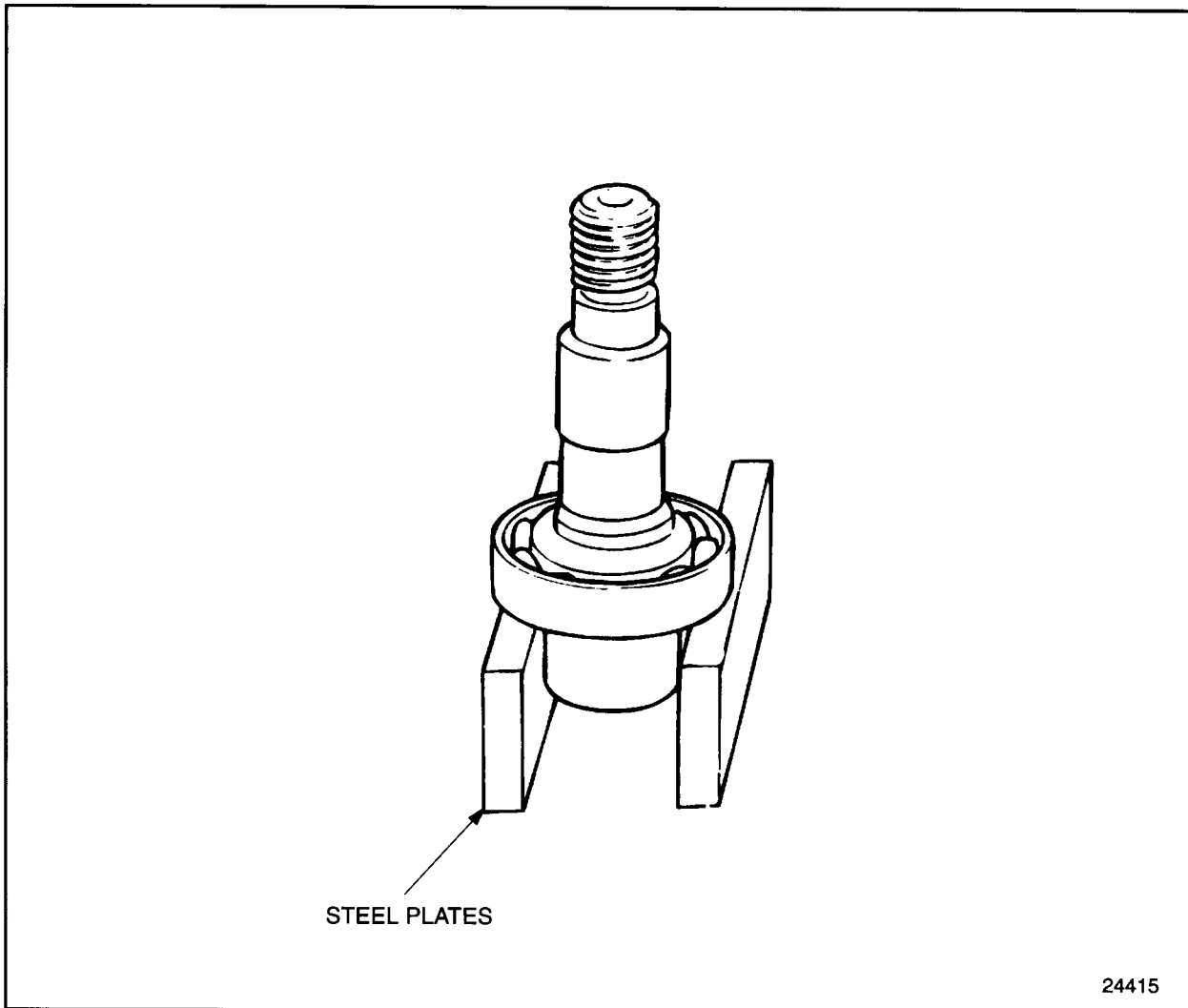


Figure 1-394 Ball Bearing Removal

NOTE:

Whenever the needle or ball bearing is removed from the shaft, they **MUST** be replaced with new bearing assemblies.

18. Use a press to apply pressure to the top of the shaft and remove the ball bearing from the shaft.

1.29.3.1 Inspection of the Accessory Drive

Clean the accessory drive prior to inspection as follows:

1. Clean all of the parts with clean fuel oil.